

Practice

Exploring Congruent Triangles

Label the corresponding parts if $\triangle RST \cong \triangle ABC$. Use the figures to complete each statement.

1. $\angle C \cong \underline{\hspace{1cm}}$

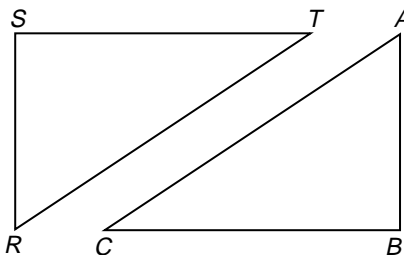
2. $\angle R \cong \underline{\hspace{1cm}}$

3. $\overline{AC} \cong \underline{\hspace{1cm}}$

4. $\overline{ST} \cong \underline{\hspace{1cm}}$

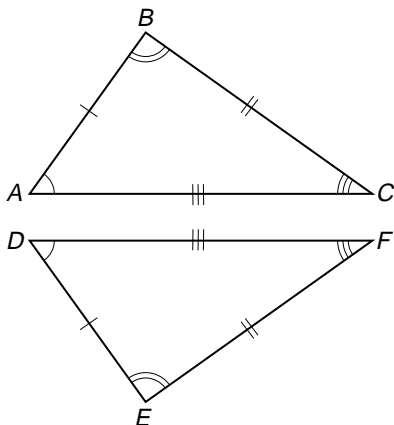
5. $\overline{RS} \cong \underline{\hspace{1cm}}$

6. $\angle B \cong \underline{\hspace{1cm}}$

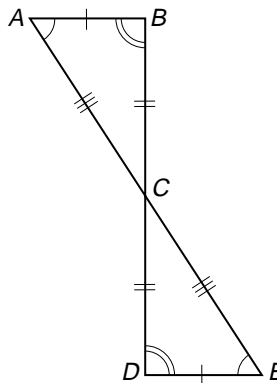


Write a congruence statement for the congruent triangles in each diagram.

7.



8.



9. Given $\triangle ABC \cong \triangle DEF$, $AB = 15$, $BC = 20$, $AC = 25$, and $FE = 3x - 7$, find x .

10. Given $\triangle ABC \cong \triangle DEF$, $DE = 10$, $EF = 13$, $DF = 16$, and $AC = 4x - 8$, find x .